	Application No.	Applicant(s)	
Notice of Allowability	10/020,588	CHOW ET AL.	
	Examiner	Art Unit	
	Aditya S Bhat	2863	I pr
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. A This communication is responsive to 30 October 2001.	· · ·		
2. 🔀 The allowed claim(s) is/are <u>1-37</u> .			
3. $igotimes$ The drawings filed on <u>30 October 2001</u> are accepted by the	e Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application No. cuments have been received in thi	s national stage applica	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet. Replacement sheet(s) should be labeled as such in the deposate of the same of th	on's Patent Drawing Review (PTG). s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.12 sit of BIOLOGICAL MATERIAL	Office action of vings in the front (not the 1(d).	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 05 August 2002 4. ☑ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal 6. ☐ Interview Summa Paper No./Mail D	Patent Application (PT ry (PTO-413), Date dment/Comment	·

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 8, 16, 23, 27 and 33:

The primary reason for the allowance of claim 1 is the inclusion of the method steps of: an aerodynamic module capable of determining at least an operating pressure associated with the expander, the aerodynamic module including an aerodynamic server component and an aerodynamic analysis component, wherein the aerodynamic server component facilitates data exchange between the aerodynamic module and at least one other module, and wherein the aerodynamic analysis component contains at least one equation useable in connection with expander flow analysis. It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

The primary reason for the allowance of claim 8 is the inclusion of the method steps of: providing an aerodynamic module capable of determining at least an operating pressure associated with the expander, the aerodynamic module including an aerodynamic server component and an aerodynamic analysis component, wherein the aerodynamic server component facilitates data exchange between the aerodynamic module and at least one other module, and wherein the aerodynamic analysis component contains at least one equation useable in connection with expander flow analysis It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

The primary reason for the allowance of claim 16 is the inclusion of the method steps of: operating the second analysis module to determine a second value for a second property variable related to the flow through the expander based on the first value received from the first analysis module It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

The primary reason for the allowance of claim 23 is the inclusion of the method steps of: means for operating the second analysis means to determine a second value for a second property variable associated with the expander based on the first value received from the first analysis means It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

The primary reason for the allowance of claim 27 is the inclusion of the method steps of: a convergence summary portion having a property variable field, a first value field, and a second value field, wherein the property variable field identifies a property variable associated with a flow through the turbine, the first value field presents a value corresponding to a first determination of the property variable, and the second value field presents a value corresponding to a second determination of the property variable. It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

The primary reason for the allowance of claim 33 is the inclusion of the method steps of: operating the first analysis module to determine a third value for the first property variable based on the second value received from the second analysis module. It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

Claims 2-7 are allowed due to their dependency on claim 1.

Claims 9-15 are allowed due to their dependency on claim 8.

Claims 17-22 are allowed due to their dependency on claim 16.

Claims 24-26 are allowed due to their dependency on claim 23.

Claims 28-32 are allowed due to their dependency on claim 27.

Claims 34-37 are allowed due to their dependency on claim 33.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sandu et al (USPN 6,672,075) teaches a liquid cooling system for gas turbines, Hoffman et al. (USPUB 2003/0182944) teaches a highly supercharged gas turbine generating system, Iles et al. (USPN 6,658,855) teaches a system for warming pressurized gas and David teaches a gas turbine with external free piston combustor.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aditya S Bhat whose telephone number is 571-272-2270. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aditya Bhat March 1, 2004

> Sup: rvisory Patent Examine: Technology Center 2800